# **Packaging and Distribution**



# Modules Roadmap: You Are Here

**NIEM Overview** 

**IEPD Concepts** 

How NIEM uses XML (pt. 1)

How NIEM uses XML (pt. 2)

**Business Skills** 

**Exchange Content Modeling** 

Mapping

Subsets

**Extension and Exchange Schemas** 



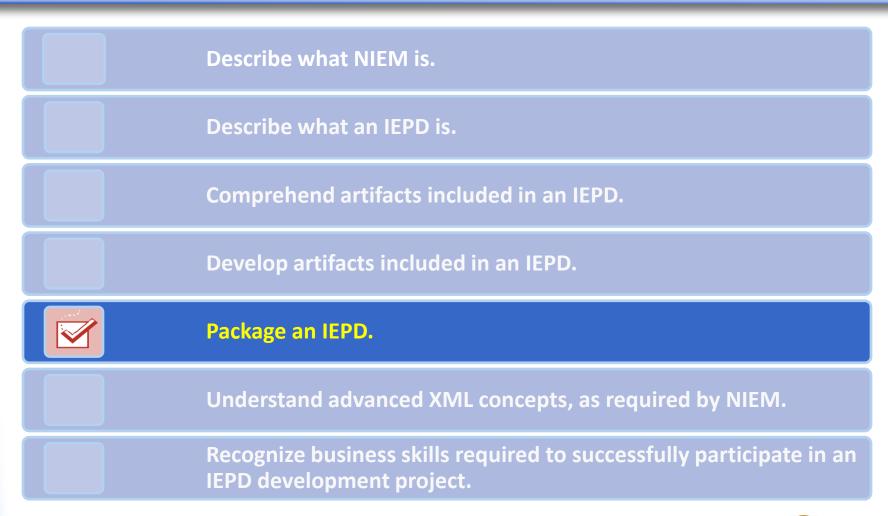
**Packaging and Distribution** 

**Implementation Considerations** 



### **Objectives Roadmap**

This module supports the following course objective:



#### **Module Objectives**

- After completing this module, you should be able to:
  - Package artifacts into an IEPD.
  - Distribute IEPD using official resources.

### **Packaging and Distribution**

- "Works with IEPDs" tool
- The IEPD metadata
- What is a repository?
- What is a federated repository?
- Next Steps



#### **Manual IEPD Construction**

- "Work With IEPDs" tool automatically packages IEPDs.
- IEPDs can also be packaged by hand:
  - Really just a collection of files
  - Packaged together into a ZIP file
  - Full specification via NIEM.gov:
    - niem.gtri.gatech.edu/niemtools/documentation.iepd



#### **IEPD Metadata**

- Some metadata is required, some strongly suggested, some optional.
- All metadata contribute to improved search and retrieval.

### What is a Repository?

- A searchable catalog of IEPDs:
  - Lists IEPD name, purpose, author, POC, URL.
  - Searchable by keywords and other metadata.
- IEPD Storage:
  - Repositories may actually store IEPDs.
  - Repositories may just point to an author's website where an IEPD is maintained.
- Federated Repositories:
  - Multiple repositories that communicate and allow for searching across all locations.



#### **NIEM IEPD Repositories**

- NIEM.gov
  - Actually stores IEPDs on its server
    - This has security implications



- niem.gtri.gatech.edu/niemtools/iepdt/search/index.iepd
- IEPD Clearinghouse
  - Points to IEPDs on other servers
  - Contains older NIEM 1.0 and GJXDM IEPDs
    - These can be valuable sources of information



- Others
  - DHS in the early stages in developing a DHS-specific repository



NIEM Practical Implementer's Course



- IEPD Master Document Exercise
  - Create the appropriate documentation for the overall IEPD using the Work with IEPDs tool on the NIEM website



### **Case Study Solution**

IEPD Master Document Exercise Solution



IEPD Master ocument Solutio

- Metadata Exercise
  - Create metadata XML file describing the IEPD



Metadata XML Template

# **Case Study Solution**

Metadata Exercise Solution



- Table of Contents Exercise
  - IEPD's should have HTML tables of contents so that when they are published to future IEPD repositories their information can be easily shared in an easy to access manner



able of Contents
Template

# **Case Study Solution**

Table of Contents Exercise Solution



### **Module Summary**

- After completing this module, you should be able to:
  - Package artifacts into an IEPD.
  - Distribute IEPD using official resources.

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